





Receipt 30

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

ATTENTION: APPLICATION BRANCH

In re the Application of: Geoffrey D. Nunberg, et al.

Application No.: 09/100,189

Filed: 06/18/98

Group Art Unit: 2772

Attorney Docket No.: D/95465

Title: ARTICLE AND METHOD OF AUTOMATICALLY DETERMINING TEXT GENRE USING

SURFACE FEATURES OF UNTAGGED TEXTS

#### REQUEST FOR CORRECTED OFFICIAL FILING RECEIPT

Assistant Commissioner for Patents Washington, DC 20231

Dear Sir or Madam:

A corrected filing receipt is hereby requested in view of the error which appears on the original. For the convenience of the Patent and Trademark Office, attached is a photo-copy of the first page of the application, a copy of the declaration and power of attorney and a copy of the original receipt on which the error, the word **TEXT** should appear between **DETERMINING** and **GENRE** in the title, has been noted in red. The title should read:

ARTICLE AND METHOD OF AUTOMATICALLY DETERMINING TEXT GENRE USING SURFACE FEATURES OF UNTAGGED TEXTS

A second error, missing inventors names and addresses: Geoffrey D. Nunberg, San Francisco, CA; Hinrich Schuetze, San Francisco, CA; Jan O. Pedersen, Fremont, CA; Brett L. Kessler, Menlo Park, CA; Gregory Grefenstette, Saint Martin d'Heres, France, have also been noted in red.

As the error was made by the Patent and Trademark Office, it is believed that no fee is due. However, please credit or debit Deposit Account 24-0025 as necessary to effect entry of the attached corrections.

Very truly yours,

Susan K. Vanderschmidt

**Domestic Docket Coordinator** 

Telephone No. 716-423-3725

Date of Signature: September 29, 1998

Xerox Corporation Office of General Counsel Xerox Square - 20A Rochester, New York 14644

ID:

PAGE 3/3

PTO-109X (Rev. 9496) P. E. FILING RECEPT



UNITED STATES D. ARTMENT OF COMMERCE Patent and Trademark Office ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

RONALD ZIBELLI XEROX CORPORATION XEROX SQUARE 20A ROCHESTER NY 14644

DOCKETED DWA

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the date presented on this receipt. If an error is noted on this Filing Receipt, please write to the Application Processing Division's Customer Correction Branch within 10 days of receipt. Please provide a copy of the Filing Receipt with the changes noted thereon.

Applicant(s)

GEOFFREY D. NUNBERG, JA. San Francisco, CA? Hinrich Schoetze, San Francisco, CA

√CONTINUING DATA AS CLAIMED BY APPLICANT-PROVISIONAL APPLICATION NO. 60/051,558 07/02/97

FOREIGN FILING LICENSE GRANTED 07/09/98

TITLE

ARTICLE AND METHOD OF AUTOMATICALLY DETERMINING GENRE USING SURFACE FEATURES OF UNTAGGED TEXTS

PRELIMINARY CLASS: 707

Jan O. Pedersen, Fremont, CA; Brett L. Kessler, Menlo Park, CA; Gregory Grefenstette, Saint Martin d'Heres, France

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## RECEIVED

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CLARKE VIII.

PATENT DEPARTMENT

OCT 0 2 1998

Patent Application

Attorney Docket No.: D95465

Express Mail ( )65635465US Mailing Date: June 18, 1998

# ARTICLE AND METHOD OF AUTOMATICALLY DETERMINING TEXT GENRE USING SURFACE FEATURES OF UNTAGGED TEXTS

#### Fleid of the Invention

The present invention relates to computational linguistics. In particular, the present invention relates to a method of automatically determining the text genre of machine-readable texts based upon surface level cues observed within the untagged texts.

#### Background of the invention

The word "genre" usually functions as a literary substitute for "kind of text." Text genre differs from the related concepts of text topic and document genre. Text genre and text topic are not wholly independent. Distinct text genres like newspaper stories, novels and scientific articles tend to largely deal with different ranges of topics; however, topical commonalties within each of these text genres are very broad and abstract. Additionally, any extensive collection of texts relating to a single topic almost always includes works of more than one text genre so that the formal similarities between them are limited to the presence of texical items. While text genre as a concept is independent of document genre, the two genre types grow up in close historical association with dense functional interdependencies. For example, a single text genre may be associated with several document genres. A short story may appear in a magazine or anthology or a novel can be published serially in parts, reissued as

#### PATENT APPLICATION

Attorney Docket No. D/95465

#### RATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

s a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: ARTICLE AND METHOD OF AUTOMATICALLY DETERMINING TEXT GENRE USING SURFACE FEATURES OF UNTAGGED TEXTS

the specification and claims of w are attached hereto	OR was filed on	June 18, 1998 as U.S. Ap I was amended on (if appi	plication No. icable)
I hereby state that I have revincluding the claims, as amende	riewed and understand of by any amendment re	the contents of the ab eferred to above.	ove-identified specification,
I acknowledge the duty to discle Code of Federal Regulations, §1	ose information which is 1.56.	s material to the patenta	bility as defined in Title 37,
I hereby claim priority benefits a application(s) for patent listed be application(s) for patent having a	elow, and have also ide	ntified below any foreign	application(s) or Provisional
Prior Foreign or U.S. Provisiona	I Application(s)		
60/051,558 (Number)	United States (Country)	2/July/1997 (Day/Month/Yea	r Filed)
		_	

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following registered practitioners to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

Ronald Zibelli,

Reg. No. 20,484;

Henry Fleischer,

Reg. No. 25,582;

John E. Beck,

Reg. No. 22,833;

Mark Costello,

Reg. No. 31,342;

Serge Abend,

Reg. No. 24,152;

Richard B. Domingo.

Reg. No. 36,784

ADDRESS ALL CORRESPONDENCE TO:

DIRECT TELEPHONE CALLS TO:

Ronald Zibelli

(name and telephone number)

Xerox Corporation

Richard B. Domingo

Xerox Square 20A

650-812-4269

Rochester, New York 14644

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under §1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Attorney Docket No. D/95465

3/9

(Same as above)

ID:

## DECLARATION AND POWER OF ATTORNEY, continued

Name of sole or first inventor: Geoffrey D. Nunberg	-1.10
Inventor's Signature:	Date: 8/3/198
Residence: 678 Grand View Avenue, San Francisco, CA 94114 Citizenship: U.S.A.	Doct Office Add
Onizonalisp. O.O.A.	Post Office Address: (Same as above)
	,
Name of second joint Inventor: Hinrich Schuetze	,
Inventor's Signature:	Date: 7/17/98
Residence: 100 Portola Drive, Apt. 1, San Francisco, CA 94131-1552	Date
Citizenship: Germany	Post Office Address: (Same as above)
	(Same as above)
Name of third joint inventor: Jan O. Pedersen	
Inventor's Signature:	Date:
Residence: 34398 Wellman Terrace, Fremont, CA 94555	
Citizenship: U.S.A.	Post Office Address: (Same as above)
	(Samo as assert)
Name of fourth joint inventor: Brett L. Kessler	
•	
Inventor's Signature:  Residence: 1508 San Antonio Avenue, Apt. N, Menio Park, CA 94025-	Date:
Citizenship: U.S.A.	Post Office Address:
	(Same as above)
Alone of Alfall, Interference	
Name of fifth joint inventor: Gregory Grefenstette	
Inventor's Signature:	Date:
Residence: 21 Avenue de la Galochere, 38400 Saint Martin d'Heres, F Citizenship: U.S.A.	rance Post Office Address:
	i voi villog mudigoo,



#### PATENT APPLICATION

Attorney Docket No. D/95465

#### RATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

ADDRESS ALL CORRESPONDENCE TO:

Ronald Zibelli

**Xerox Corporation** 

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Rochester, New York 14644

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is sought on the invention er GENRE USING SURFACE F	ntitled: ARTICLE AND M EATURES OF UNTAGE	ETHOD OF AUTOMATIC GED TEXTS	ALLY DETERMINING TE	ΞX
the specification and claims of are attached hereto	OR 🔯 was filed o	on <u>June 18, 1998</u> as U.S. A and was amended on (if ap	Application No. plicable)	
I hereby state that I have including the claims, as ame	reviewed and understanded by any amendment	nd the contents of the at referred to above.	above-identified specificat	ion
I acknowledge the duty to di Code of Federal Regulations	sclose information which, §1.56.	h is material to the paten	lability as defined in Title	37
I hereby claim priority benefi application(s) for patent listed application(s) for patent having Prior Foreign or U.S. Provision	d below, and have also in ng a filing date before the	dentified below any foreig	n application(s) or Provision	ona ona
	mai Application(s)			
60/051.558 (Number)	<u>United States</u> (Country)	2/July/1997 (Day/Month/Ye	ear Filed)	
POWER OF ATTORNE practitioners to prosecute Office connected therewit Ronald Zibelli, John E. Beck, Serge Abend,	this application and tra	ntor, I hereby appoint t ansact all business in the Henry Fleischer, Mark Costello, Richard B. Domingo,	Reg. No. 25,582; Reg. No. 31,842;	DEPENE

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both. under §1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

DIRECT TELEPHONE CALLS TO:

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Richard B. Domingo

650-812-4269

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#### Attorney Docket No. D/95465

## DECLARATION AND POWER OF ATTORNEY, continued

Name of sole	or first inventor:	Geoffrey D. Nunberg	
Inventor's Sig Residence: Citizenship:	678 Grand View A	Avenue, San Francisco, CA 94114	Post Office Address: (Same as above)
Name of seco	and joint inventor:	Hinrich Schuetze	
Inventor's Sig Residence: Citizenship:	100 Portola Drive	, Apt. 1, San Francisco, CA 94131-1552	Post Office Address: (Same as above)
Name of third	l joint inventor:	Jan O. Pedersen	
Inventor's Sig Residence: Citizenship:	34398 Wellman T	errace, Fremont, CA 94555	Post Office Address: (Same as above)
Name of four	th joint inventor:	Brett L. Kessler	
Inventor's Sig Residence: Citizenship:	1508 San Antonio	Avenue, Apt. N, Menlo Park, CA 94025-	Date: 3138 Post Office Address: (Same as above)
Name of fifth	joint inventor:	Gregory Grefenstette	
Inventor's Sig Residence: Citizenship:	21 Avenue de la 0	Salochere, 38400 Saint Martin d'Heres, F	Date: As 10 98 rance Post Office Address: (Same as above)

ID:

## PATENT APPLICATION

Attorney Docket No. D/95465

#### TION AND POWER OF ATTORNEY FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: ARTICLE AND METHOD OF AUTOMATICALLY DETERMINING TEXT GENRE USING SURFACE FEATURES OF UNTAGGED TEXTS

the specification and claims of which are attached hereto OR	was filed on June 18	3 <u>. 1998</u> as U.S. Application No nended on (if applicable)	·
I hereby state that I have reviewe including the claims, as amended by	d and understand the co any amendment referred t	ontents of the above-identification above.	ed specification,
l acknowledge the duty to disclose i Code of Federal Regulations, §1.56.	nformation which is mater	ial to the patentability as def	ined in Title 37,
I hereby claim priority benefits under application(s) for patent listed below, application(s) for patent having a filing	and have also identified b	selow any foreign application/s	a) or Provisional
Prior Foreign or U.S. Provisional App	lication(s)		
	ed States ntry)	2/July/1997 (Day/Month/Year Filed)	

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following registered practitioners to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

Ronald Zibelli. Reg. No. 20,484; Henry Fleischer, Reg. No. 25,582; John E. Beck, Reg. No. 22,833: Mark Costello, Reg. No. 31,342;

Serge Abend, Reg. No. 24,152: Richard B. Domingo, Reg. No. 36,784

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DIRECT TELEPHONE CALLS TO: Ronald Zibelli (name and telephone number)

**Xerox Corporation** Richard B. Domingo

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Rochester, New York 14644

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under §1001 of Title 18 of the United States Code and that such willful false statements may jecpardize the validity of the application or any patent issuing thereon.

(Same as above)

## Attorney Docket No. D/95465

DECLARATION AND POWER OF ATTORNEY, continued	Allottiey Docker (40. D/95

Name of Sole	Geonrey D. Numberg	
Inventor's Sig		Date:
Residence: 678 Grand View Avenue, San Francisco, CA 94114		
Citizenship:	U.S.A.	Post Office Address: (Same as above)
Name of sec	ond joint inventor: Hinrich Schuetze	
Inventor's Sig	gnature:	Date:
Residence:	100 Portola Drive, Apt. 1, San Francisco, CA 94131-1552	
Citizenship:	Germany	Post Office Address: (Same as above)
Name of third	joint inventor: Jan O. Pedersen	
Inventor's Sig	and the same	2/2 c / 3 ×
inventors oit	34398 Wellman Terrage, Frement, CA 94555	Date: <u>7/26/78</u>
Citizenship:	U.S.A. 3713 Bibbits Or., Palo NIM, (A 94303	Post Office Address: (Same as above)
Name of four	th joint inventor: Brett L. Kessler	
Inventor's Sig	anature:	Date:
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Name of fifth	joint inventor: Gregory Grefenstette	
Inventor's Sig		Date:
Residence:	21 Avenue de la Galochere, 38400 Saint Martin d'Heres, Fr	ance
Citizenship:	U.S.A.	Post Office Address:

## PATENT APPLICATION

Attorney Docket No. D/95465

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the specification and claims of which	
are attached hereto OR	☑ was filed on June 18, 1998 as U.S. Application No
	09/100,189 and was amended on (if applicable)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability as defined in Title 37, Code of Federal Regulations, §1.56.

I hereby claim priority benefits under Title 35, United States Code, §119 of any foreign or U.S. Provisional application(s) for patent listed below, and have also identified below any foreign application(s) or Provisional application(s) for patent having a filing date before that of the application on which priority is claimed:

Prior Foreign or U.S. Provisional Application(s)

60/051.558	United States	2/July/1997
(Number)	(Country)	(Day/Month/Year Filed)

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following registered practitioners to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

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Serge Abend. Reg. No. 24,152: Richard B. Domingo. Reg. No. 36,784

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Ronald Zibelli (name and telephone number) Xerox Corporation Richard B. Domingo

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Rochester, New York 14644

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Attorney Docket No. D/95465

## DECLARATION AND POWER OF ATTORNEY, continued

Name of sole of	or first inventor: (	Geoffrey D. Nunberg	
Inventor's Sign Residence: 6 Citizenship: U	678 Grand View Av	venue, San Francisco, CA 94114	Post Office Address: (Same as above)
Name of secon	nd joint inventor:	Hinrlch Schuetze	
Inventor's Sign Residence: 1 Citizenship: 0	100 Portola Drive,	Apt. 1, San Francisco, CA 94131-1552	Post Office Address: (Same as above)
Name of third j	oint inventor:	Jan O. Pedersen	
Inventor's Sign Residence: 3 Citizenship: L	34398 Wellman Te	rrace, Fremont, CA 94555	Post Office Address: (Same as above)
Name of fourth	joint inventor:	Brett L. Kessler	
Inventor's Signa Residence: 1 Citizenship: U	1508 San Antonio /	Lett I. Kenler Avenue, Apt. N, Menio Park, CA 94025-3	Date: <u>Gul 20.1995</u> 3138 Post Office Address: (Same as above)
Name of fifth jo	oint inventor:	Gregory Grefenstette	
Inventor's Signa Residence: 2 Citizenship: i	21 Avenue de la Ga	alochere, 38400 Saint Martin d'Heres, Fr	Date:ance Post Office Address: